

**Fig. 1**

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graph TD; 200[Remove sample from beam path.] --> 202[Step RAP over a discrete set of angles from 0 to 360 degrees.]; 202 --> 204[Acquire raw scan, S_B(λ, Θ), at each position, Θ, of the RAP (back reflectance).]; 204 --> 206[Place non-polarizing reference sample on sample and adjust stage height to focus using the pattern recognition system.]; 206 --> 208[Step RAP over a discrete set of angles from 0 to 360 degrees.]; 208 --> 210[Acquire raw scan at each position, Θ, of the RAP from the reference sample, S_o(λ, Θ).];
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200 Remove sample from beam path.

202 Step RAP over a discrete set of angles from 0 to 360 degrees.

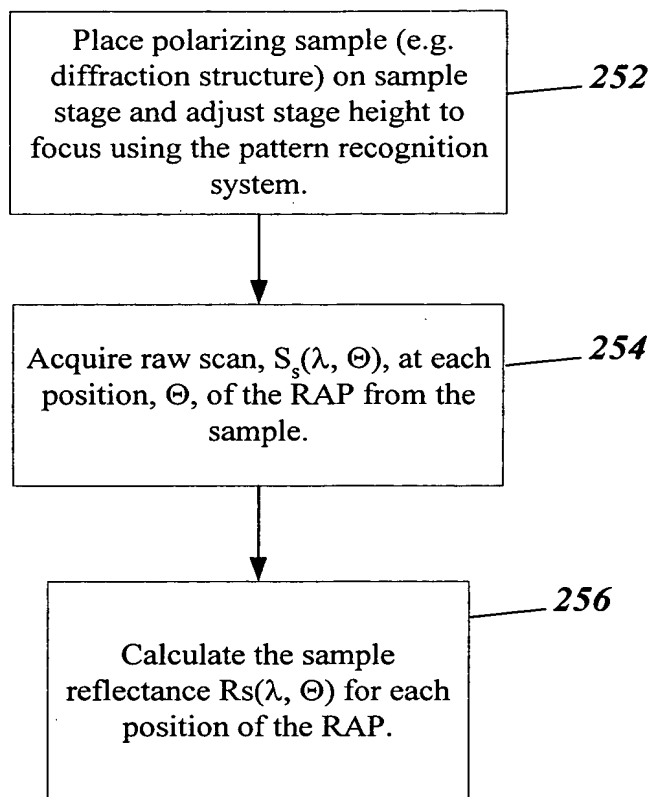
204 Acquire raw scan,  $S_B(\lambda, \Theta)$ , at each position,  $\Theta$ , of the RAP (back reflectance).

206 Place non-polarizing reference sample on sample and adjust stage height to focus using the pattern recognition system.

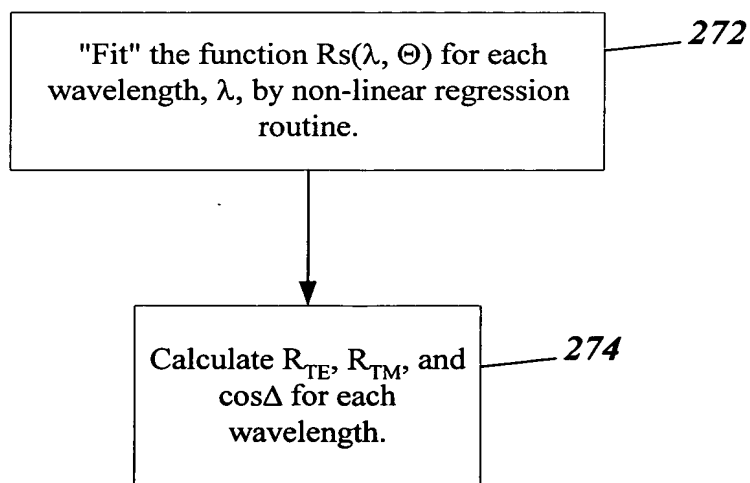
208 Step RAP over a discrete set of angles from 0 to 360 degrees.

210 Acquire raw scan at each position,  $\Theta$ , of the RAP from the reference sample,  $S_o(\lambda, \Theta)$ .

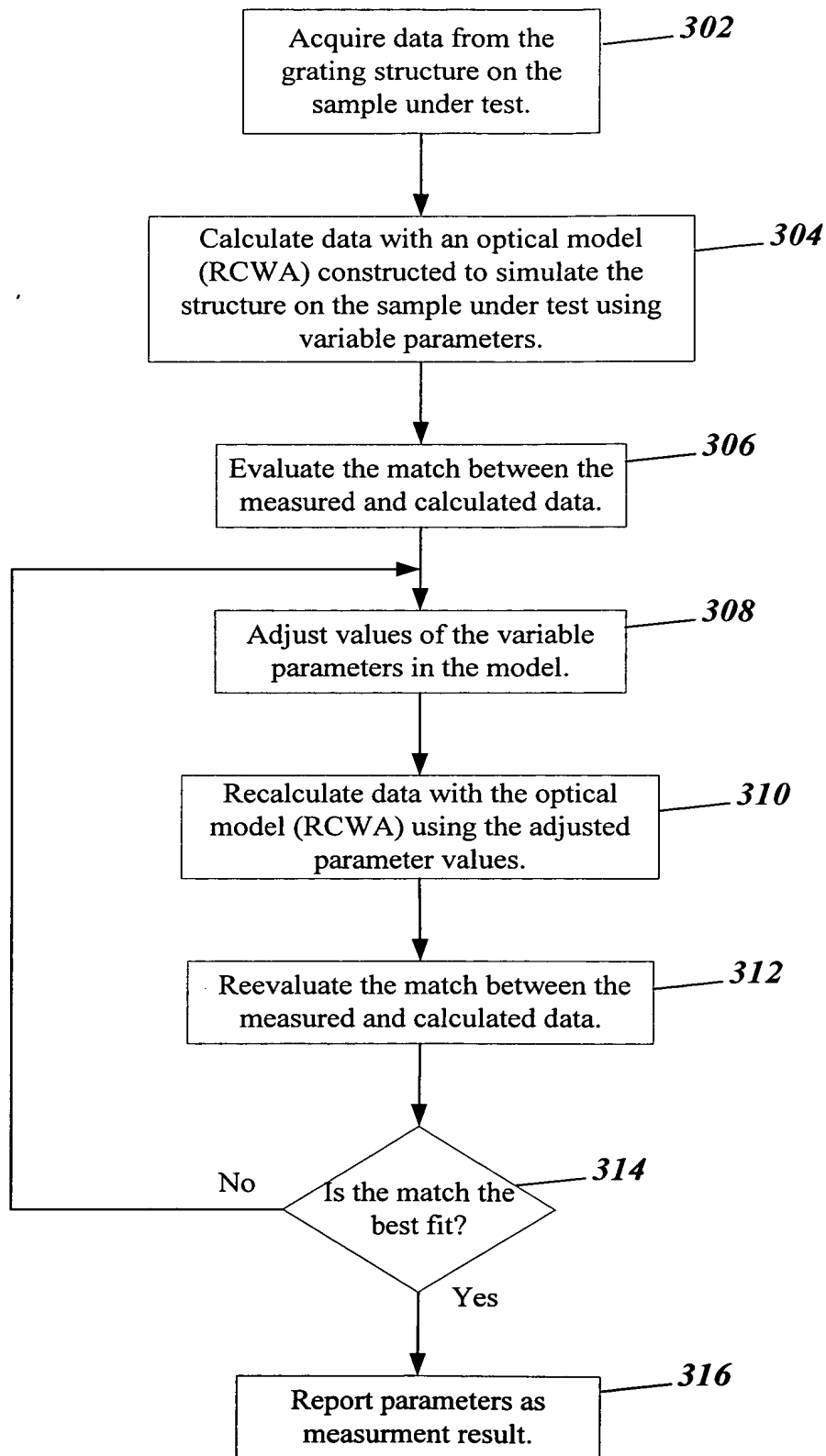
***Fig. 2***



**Fig. 3**



**Fig. 4**



**Fig. 5**